Author Index

Agbossou, F., see Brunet, J.-J. 223

Araki, K., see Yamada, M. 195

Augustine, R.L. and Techasauvapak, P.
Heterogeneous catalysis in organic synthesis. Part 9. Specific site solvent effects in catalytic hydrogenations 95

Augustine, R.L., see Tanielyan, S.K. 311

Bachelier, J., see Lahousse, C. 329

Beelen, T.P.M., see Schipper, E.T.W.M. 161

Belapurkar, A.D., Gupta, N.M., Phatak, G.M. and Iyer, R.M.
Role of oxygen vacancies in the decomposition of N_2O over $YBa_2Cu_3O_{7-\delta}$ and Gd_2CuO_4 oxide systems 287

Bennet, A.M.A., see Foulds, G.A. 117

Bercaw, J.E., see Freund, M.S. L11

Besson, M., see Nasar, K. 107

Béziat, J.-C., see Nasar, K. 107

Bezouhanova, C.P. and Jabur, F.A.
Zeolite catalysts for pinacol rearrangement 39

Blanco, F.G., see García del Vado, M.A. 361

Brunet, J.-J., Neibecker, D., Agbossou, F. and Srivastava, R.S.
Iron pentacarbonyl-catalysed aminomethylation of alkenes: some intriguing observations 223

Cao, H., see Fărcaşiu, D. 215

Carolina Martínez González, M., see García del Vado, M.A. 361

Castellani, N.J., see Ferreira, M.L. 137

Cavell, K.J., see Foulds, G.A. 117

Cenini, S., see Tollari, S. 203

Chiessi, E. and Pispisa, B.
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177

Choudary, B.M., Ravichandra Sarma, M. and Vijaya Kumar, K.
Fe^{3+}-Montmorillonite catalyst for selective nitration of chlorobenzene 33

Chuvilin, A.L., Moroz, B.L. and Likholobov, V.A.
Origin of agglomerates observed in high resolution transmission electron microscopy (HRTEM) micrographs of a catalyst containing platinum(II) complexes anchored on phosphinated SiO_2: computer simulation of HRTEM images 231

Crotti, C., see Tollari, S. 203

Dai, L.-X., see Yang, R.-Y. L1

Damiani, D.E., see Ferreira, M.L. 137

Desjardins, S., see Foulds, G.A. 117

Domènech, X., see Milis, A. 67

Dubkov, K.A., see Lapina, O.B. 57

Echevarría, G., see García del Vado, M.A. 361

Esteruelas, M.A., García, M.P., Martín, M. and Oro, L.A.
Kinetic and spectroscopic study of the hydrogen-transfer reaction from 2-propanol to cyclohexanone catalyzed by $[IrH_2(pz)(Hpz)(PPh_3)_2]$ (Hpz = pyrazole) 151

Fache, F., see Nasar, K. 107

Fărcaşiu, D. and Cao, H.
Acidity studies of Eaton's catalyst, methanesulfonic acid–phosphorus pentoxide 215

Ferreira, M.L., Juan, A., Castellani, N.J. and Damiani, D.E.
Molecular orbital studies in the $MgCl_2$–ethyl benzoate–$TiCl_4$ system 137

Filatov, M.J., Shalyaev, K.V. and Talsi, E.P.
Why do not 7-co-ordinated diperoxo molybdenum complexes oxidize alkenes? A theoretical analysis L5

Foulds, G.A., Bennet, A.M.A., Niven, M.L., Thornton, D.A., Cavell, K.J., Desjardins, S. and Peacock, E.J.
Catalytic olefin oligomerisation activity of a series of trialkyl- and triphenylphosphine derivatives of the nickel(II) complexes of 4-thioxo-2-pentanoate and 2,4-pentanedithionate 117

Freund, M.S., Labinger, J.A., Lewis, N.S. and Bercaw, J.E.
Electrocatalytic functionalization of alkanes using aqueous platinum salts L11

Gadgil, M.M., Sasikala, R. and Kulshreshtha, S.K.
CO oxidation over Pd/SnO_2 catalyst 297

Gallezot, P., see Nasar, K. 107
García, M.P., see Esteruelas, M.A. 151
García del Vado, M.A., Rodríguez Cardona, F., Echevarría, G., Carolina Martínez González, M., Santos Blanco, J.G. and Blanco, F.G.
Determination of the rates of formation and hydrolysis of the Schiff bases formed by pyridoxal and poly-L-lysine 361
German, A.L., see Schipper, E.T.W.M. 161
Gianella, E., see Tollari, S. 203
Govic, A.-M.L., see Lahousse, C. 329
Gulková, D. and Kraus, M.
Substituent effects on the rate of dehydrogenation of primary and secondary alcohols 47
Guo, X., see Lamping, A.E. 75
Gupta, N.M., see Belapurkar, A.D. 287
Harada, T., see Osawa, T. 333
Heuts, J.P.A., see Schipper, E.T.W.M. 161
Hirota, S., see Ohkubo, K. L21
Hisazumi, A., see Yamada, M. 195
Honda, Y., see Ohkubo, K. L21
Iyer, R.M., see Belapurkar, A.D. 287
Jabur, F.A., see Bezouhanova, C.P. 39
Jackson, S.D. and Kelly, G.
Hydrogenation of propyne to propene over platinum/silica 275
Juan, A., see Ferreira, M.L. 137
Kawamura-Kuribayashi, H., see Shiga, A. 243
Kelly, G., see Jackson, S.D. 275
Kraus, M., see Gulková, D. 47
Kubelková, L., see Nováková, J. 343
Kulshreshtha, S.K., see Gadgil, M.M. 297
Kuroda, S., see Yamada, M. 195
Labinger, J.A., see Freund, M.S. L11
Lahousse, C., Bachelier, J., Lavalley, J.-C., Lauron-Pernot, H. and Govic, A.-M.L.
Validity of using isopropanol decomposition as a test-reaction for the characterization of metal oxides basicity; comparison with results obtained from methylbutynol decomposition 329
Lamping, A.E., Guo, X. and Rempel, G.L.
Catalytic hydrogenation of polyaromatics in the presence of μ_3-oxo-trirhodium acetate and its silica supported analogue 75
Lapina, O.B., Nosov, A.V., Mastikhin, V.M., Dubkov, K.A. and Mokrinski, V.V.
Surface complexes formed in V_2O_5–TiO_2–SiO_2 catalysts according to ^{51}V and ^{1}H high-resolution solid-state NMR data 57
Lauron-Pernot, H., see Lahousse, C. 329
Lavalley, J.-C., see Lahousse, C. 329
Lemaire, M., see Nasar, K. 107
Lercher, J.A., see Meusinger, J. 263
Lewis, N.S., see Freund, M.S. L11
Likholobov, V.A., see Chuvilin, A.L. 231
Martín, M., see Esteruelas, M.A. 151
Mastikhin, V.M., see Lapina, O.B. 57
Meusinger, J., Vinek, H. and Lercher, J.A.
Cracking of *n*-hexane and *n*-butane over SAPO5, MgAPO5 and CoAPO5 263
Milis, A., Peral, J., Domènech, X. and Navío, J.A.
Heterogeneous photocatalytic oxidation of nitrite over iron-doped TiO_2 samples 67
Mokrinski, V.V., see Lapina, O.B. 57
Moroz, B.L., see Chuvilin, A.L. 231
Nasar, K., Fache, F., Lemaire, M., Béziat, J.-C., Besson, M. and Gallezot, P.
Stereoselective reduction of disubstituted aromatics on colloidal rhodium 107
Navío, J.A., see Milis, A. 67
Neibecker, D., see Brunet, J.-J. 223
Niven, M.L., see Foulds, G.A. 117
Nosov, A.V., see Lapina, O.B. 57
Nováková, J. and Kubelková, L.
Interaction of CO with Ni^0 in zeolites and on alumina studied by isotopic exchange 343
Ochi, S., see Yamada, M. 195
Ohkubo, K., Urata, Y., Hirota, S., Honda, Y. and Sagawa, T.
Homogeneous and heterogeneous esterolytic catalyses of imidazole-containing polymers prepared by molecular imprinting of a transition state analogue L21
Okura, I., see Seki, Y. L17
Oro, L.A., see Esteruelas, M.A. 151
Osawa, T., Harada, T. and Tai, A.
Mode of enantioface-differentiation in the hydrogenation of 2-alkanone over an asymmetrically modified nickel catalyst 333
Peacock, E.J., see Foulds, G.A. 117
Peral, J., see Milis, A. 67
Phatak, G.M., see Belapurkar, A.D. 287
Piet, P., see Schipper, E.T.W.M. 161
Pispisa, B., see Chiessi, E. 177

Qian, C., Qiu, A., Zhu, D. and Yang, X.
Regioselective acylative cleavage of cyclic ethers catalyzed by rare earth compounds 357
Qiu, A., see Qian, C. 357
Ravichandra Sarma, M., see Choudary, B.M. 33
Rempel, G.L., see Lamping, A.E. 75
Rodríguez Cardona, F., see García del Vado, M.A. 361
Sagawa, T., see Ohkubo, K. L21
Salem, I.A.
The catalytic effect of some transition metal hexamethylenetetramine complexes in hydrogen peroxide decomposition 25
Santos Blanco, J.G., see García del Vado, M.A. 361
Sasaki, T., see Shiga, A. 243
Sasikala, R., see Gadgil, M.M. 297
Schipper, E.T.W.M., Heuts, J.P.A., Piet, P., Beelen, T.P.M. and German, A.L.
Effects of complexation of oppositely charged water-soluble cobaltphthalocyanines on the catalytic mercaptoethanol autoxidation 161
Seki, Y., Shimoda, M., Sugimori, D. and Okura, I.
Epoxidation of allyl compounds with *Methylosinus trichosporium* (OB3b): stereoselectivity of methane monooxygenase L17
Shalyaev, K.V., see Filatov, M.J. L5
Shiga, A., Kawamura-Kuribayashi, H. and Sasaki, T.
Paired interacting orbitals (PIO) study on the formation of the active site in Ziegler catalyst system 243
Shimao, I., see Yamada, M. 195
Shimoda, M., see Seki, Y. L17
Srivastava, R.S., see Brunet, J.-J. 223
Sugimori, D., see Seki, Y. L17
Suzuki, H., see Yamada, M. 195
Tai, A., see Osawa, T. 333
Talsi, E.P., see Filatov, M.J. L5
Tanielyan, S.K. and Augustine, R.L.
Acetoxylation of toluene catalyzed by supported Pd–Sn catalysts 311
Techasauvapak, P., see Augustine, R.L. 95
Thornton, D.A., see Foulds, G.A. 117
Tollari, S., Cenini, S., Crotti, C. and Gianella, E.
Synthesis of heterocycles via palladium-catalyzed carbonylation of ortho-substituted organic nitro compounds in relatively mild conditions 203
Urata, Y., see Ohkubo, K. L21
Vijaya Kumar, K., see Choudary, B.M. 33
Vinek, H., see Meusinger, J. 263
Yamada, M., Ochi, S., Suzuki, H., Hisazumi, A., Kuroda, S., Shimao, I. and Araki, K.
Catalytic activities of nickel(II) complexes of a salen analog, [Ni(babp)], in epoxidation of olefins 195
Yang, R.-Y. and Dai, L.-X.
Enantioselective epoxidation of olefins with ruthenium(III)-pyridyl-oxazolines as catalyst L1
Yang, X., see Qian, C. 357
Zhu, D., see Qian, C. 357

Subject Index

acetoxylation
Acetoxylation of toluene catalyzed by supported Pd–Sn catalysts 311
acidity
Acidity studies of Eaton's catalyst, methanesulfonic acid–phosphorus pentoxide 215
acylative cleavage
Regioselective acylative cleavage of cyclic ethers catalyzed by rare earth compounds 357
alcohol
Substituent effects on the rate of dehydrogenation of primary and secondary alcohols 47
alkane cracking
Cracking of *n*-hexane and *n*-butane over SAPO5, MgAPO5 and CoAPO5 263
alkanones
Mode of enantioface-differentiation in the hydrogenation of 2-alkanone over an asymmetrically modified nickel catalyst 333
alkenes
Why do not 7-co-ordinated diperoxo molybdenum complexes oxidize alkenes? A theoretical analysis L5
Iron pentacarbonyl-catalysed aminomethylation of alkenes: some intriguing observations 223
allyl chloride
Catalytic activities of nickel(II) complexes of a salen analog, [Ni(babp)], in epoxidation of olefins 195
alumina
Interaction of CO with Ni^0 in zeolites and on alumina studied by isotopic exchange 343
aluminium
Paired interacting orbitals (PIO) study on the formation of the active site in Ziegler catalyst system 243
aminomethylation
Iron pentacarbonyl-catalysed aminomethylation of alkenes: some intriguing observations 223
aromatics
Stereoselective reduction of disubstituted aromatics on colloidal rhodium 107
asymmetric modification
Mode of enantioface-differentiation in the hydrogenation of 2-alkanone over an asymmetrically modified nickel catalyst 333
autoxidation
Effects of complexation of oppositely charged water-soluble cobaltphthalocyanines on the catalytic mercaptoethanol autoxidation 161
basicity
Validity of using isopropanol decomposition as a test-reaction for the characterization of metal oxides basicity; comparison with results obtained from methylbutynol decomposition 329
carbon monoxide
CO oxidation over Pd/SnO_2 catalyst 297
Interaction of CO with Ni^0 in zeolites and on alumina studied by isotopic exchange 343
carbonylation
Synthesis of heterocycles via palladium-catalyzed carbonylation of ortho-substituted organic nitro compounds in relatively mild conditions 203
carbonyl complexes
Iron pentacarbonyl-catalysed aminomethylation of alkenes: some intriguing observations 223
carboxylic acids
Effects of complexation of oppositely charged water-soluble cobaltphthalocyanines on the catalytic mercaptoethanol autoxidation 161
chlorobenzene
Fe^{3+}-Montmorillonite catalyst for selective nitration of chlorobenzene 33
CoAPO5
Cracking of *n*-hexane and *n*-butane over SAPO5, MgAPO5 and CoAPO5 263
cobalt
The catalytic effect of some transition metal hexamethylenetetramine com-

plexes in hydrogen peroxide decomposition 25
Effects of complexation of oppositely charged water-soluble cobaltphthalocyanines on the catalytic mercaptoethanol autoxidation 161
colloidal metals
Stereoselective reduction of disubstituted aromatics on colloidal rhodium 107
copper
The catalytic effect of some transition metal hexamethylenetetramine complexes in hydrogen peroxide decomposition 25
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177
cyclic ethers
Regioselective acylative cleavage of cyclic ethers catalyzed by rare earth compounds 357
cyclic voltammetry
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177
cyclohexanone
Kinetic and spectroscopic study of the hydrogen-transfer reaction from 2-propanol to cyclohexanone catalyzed by $[IrH_2(pz)(Hpz)(PPh_3)_2]$ (Hpz = pyrazole) 151
dehydration
Zeolite catalysts for pinacol rearrangement 39
dehydrogenation
Substituent effects on the rate of dehydrogenation of primary and secondary alcohols 47
diperoxo complexes
Why do not 7-co-ordinated diperoxo molybdenum complexes oxidize alkenes? A theoretical analysis L5
Eaton's catalyst
Acidity studies of Eaton's catalyst, methanesulfonic acid–phosphorus pentoxide 215
electrocatalysis
Electrocatalytic functionalization of alkanes using aqueous platinum salts L11
enantioface-differentiation
Mode of enantioface-differentiation in the hydrogenation of 2-alkanone over an asymmetrically modified nickel catalyst 333
epoxidation
Catalytic activities of nickel(II) complexes of a salen analog, [Ni(babp)], in epoxidation of olefins 195
EPR spectroscopy
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177
ethyl benzoate
Molecular orbital studies in the $MgCl_2$–ethyl benzoate–$TiCl_4$ system 137
extended Hückel calculation
Paired interacting orbitals (PIO) study on the formation of the active site in Ziegler catalyst system 243
extended Hückel calculations
Molecular orbital studies in the $MgCl_2$–ethyl benzoate–$TiCl_4$ system 137
gadolinium cuprate
Role of oxygen vacancies in the decomposition of N_2O over $YBa_2Cu_3O_{7-\delta}$ and Gd_2CuO_4 oxide systems 287
heterocycles
Synthesis of heterocycles via palladium-catalyzed carbonylation of ortho-substituted organic nitro compounds in relatively mild conditions 203
hexamethylenetetramine complexes
The catalytic effect of some transition metal hexamethylenetetramine complexes in hydrogen peroxide decomposition 25
high-resolution solid-state NMR spectroscopy
Surface complexes formed in V_2O_5–TiO_2–SiO_2 catalysts according to ^{51}V and ^{1}H high-resolution solid-state NMR data 57
high T_c oxide
Role of oxygen vacancies in the decomposition of N_2O over $YBa_2Cu_3O_{7-\delta}$ and Gd_2CuO_4 oxide systems 287
HRTEM images
Origin of agglomerates observed in high resolution transmission electron microscopy (HRTEM) micrographs of a catalyst containing platinum(II) complexes anchored on phosphinated SiO_2: computer simulation of HRTEM images 231

hydrogenation
Catalytic hydrogenation of polyaromatics in the presence of μ_3-oxo-trirhodium acetate and its silica supported analogue 75
Heterogeneous catalysis in organic synthesis. Part 9. Specific site solvent effects in catalytic hydrogenations 95
Hydrogenation of propyne to propene over platinum/silica 275
Mode of enantioface-differentiation in the hydrogenation of 2-alkanone over an asymmetrically modified nickel catalyst 333
hydrogen peroxide decomposition
The catalytic effect of some transition metal hexamethylenetetramine complexes in hydrogen peroxide decomposition 25
hydrogen transfer
Kinetic and spectroscopic study of the hydrogen-transfer reaction from 2-propanol to cyclohexanone catalyzed by $[IrH_2(pz)(Hpz)(PPh_3)_2]$ (Hpz=pyrazole) 151
hydrolysis
Homogeneous and heterogeneous esterolytic catalyses of imidazole-containing polymers prepared by molecular imprinting of a transition state analogue L21
Determination of the rates of formation and hydrolysis of the Schiff bases formed by pyridoxal and poly-L-lysine 361
hydroxylation
Electrocatalytic functionalization of alkanes using aqueous platinum salts L11
iridium
Kinetic and spectroscopic study of the hydrogen-transfer reaction from 2-propanol to cyclohexanone catalyzed by $[IrH_2(pz)(Hpz)(PPh_3)_2]$ (Hpz=pyrazole) 151
iron
Fe^{3+}-Montmorillonite catalyst for selective nitration of chlorobenzene 33
Heterogeneous photocatalytic oxidation of nitrite over iron-doped TiO_2 samples 67
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177
Iron pentacarbonyl-catalysed aminomethylation of alkenes: some intriguing observations 223
isopropanol
Validity of using isopropanol decomposition as a test-reaction for the characterization of metal oxides basicity; comparison with results obtained from methylbutynol decomposition 329
isotope exchange
Interaction of CO with Ni^0 in zeolites and on alumina studied by isotopic exchange 343
kinetics
Kinetic and spectroscopic study of the hydrogen-transfer reaction from 2-propanol to cyclohexanone catalyzed by $[IrH_2(pz)(Hpz)(PPh_3)_2]$ (Hpz=pyrazole) 151
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177
kinetics primary alcohol
Substituent effects on the rate of dehydrogenation of primary and secondary alcohols 47
magnesium
Molecular orbital studies in the $MgCl_2$–ethyl benzoate–$TiCl_4$ system 137
manganese
The catalytic effect of some transition metal hexamethylenetetramine complexes in hydrogen peroxide decomposition 25
metal oxides
Validity of using isopropanol decomposition as a test-reaction for the characterization of metal oxides basicity; comparison with results obtained from methylbutynol decomposition 329
methanesulphonic acid
Acidity studies of Eaton's catalyst, methanesulfonic acid–phosphorus pentoxide 215
methylbutynol
Validity of using isopropanol decomposition as a test-reaction for the characterization of metal oxides basicity; comparison with results obtained from methylbutynol decomposition 329
methyl hydroperoxide
Why do not 7-co-ordinated diperoxo mo-

lybdenum complexes oxidize alkenes? A theoretical analysis L5
MgAPO5
Cracking of *n*-hexane and *n*-butane over SAPO5, MgAPO5 and CoAPO5 263
molecular imprinting
Homogeneous and heterogeneous esterolytic catalyses of imidazole-containing polymers prepared by molecular imprinting of a transition state analogue L21
molybdenum
Why do not 7-co-ordinated diperoxo molybdenum complexes oxidize alkenes? A theoretical analysis L5
montmorillonite
Fe^{3+}-Montmorillonite catalyst for selective nitration of chlorobenzene 33
Mössbauer spectroscopy
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177
n-butane
Cracking of *n*-hexane and *n*-butane over SAPO5, MgAPO5 and CoAPO5 263
n-hexane
Cracking of *n*-hexane and *n*-butane over SAPO5, MgAPO5 and CoAPO5 263
nickel
The catalytic effect of some transition metal hexamethylenetetramine complexes in hydrogen peroxide decomposition 25
Catalytic olefin oligomerisation activity of a series of trialkyl- and triphenylphosphine derivatives of the nickel(II) complexes of 4-thioxo-2-pentanoate and 2,4-pentanedithionate 117
Mode of enantioface-differentiation in the hydrogenation of 2-alkanone over an asymmetrically modified nickel catalyst 333
Interaction of CO with Ni^0 in zeolites and on alumina studied by isotopic exchange 343
nickel catalysis
Catalytic activities of nickel(II) complexes of a salen analog, [Ni(babp)], in epoxidation of olefins 195
nitration
Fe^{3+}-Montmorillonite catalyst for selective nitration of chlorobenzene 33
nitrite
Heterogeneous photocatalytic oxidation of nitrite over iron-doped TiO_2 samples 67
nitrous oxide decomposition
Role of oxygen vacancies in the decomposition of N_2O over $YBa_2Cu_3O_{7-\delta}$ and Gd_2CuO_4 oxide systems 287
NMR spectroscopy
Kinetic and spectroscopic study of the hydrogen-transfer reaction from 2-propanol to cyclohexanone catalyzed by $[IrH_2(pz)(Hpz)(PPh_3)_2]$ (Hpz=pyrazole) 151
olefin
Catalytic olefin oligomerisation activity of a series of trialkyl- and triphenylphosphine derivatives of the nickel(II) complexes of 4-thioxo-2-pentanoate and 2,4-pentanedithionate 117
oligomerisation
Catalytic olefin oligomerisation activity of a series of trialkyl- and triphenylphosphine derivatives of the nickel(II) complexes of 4-thioxo-2-pentanoate and 2,4-pentanedithionate 117
ortho-substituted organic nitro compounds
Synthesis of heterocycles via palladium-catalyzed carbonylation of ortho-substituted organic nitro compounds in relatively mild conditions 203
oxidation
Heterogeneous photocatalytic oxidation of nitrite over iron-doped TiO_2 samples 67
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177
CO oxidation over Pd/SnO_2 catalyst 297
oxygen vacancy
Role of oxygen vacancies in the decomposition of N_2O over $YBa_2Cu_3O_{7-\delta}$ and Gd_2CuO_4 oxide systems 287
paired interacting orbitals
Paired interacting orbitals (PIO) study on the formation of the active site in Ziegler catalyst system 243
palladium
Synthesis of heterocycles via palladium-catalyzed carbonylation of ortho-substituted organic nitro compounds in relatively mild conditions 203

CO oxidation over Pd/SnO_2 catalyst 297
Acetoxylation of toluene catalyzed by supported Pd–Sn catalysts 311
pentanedithionate
Catalytic olefin oligomerisation activity of a series of trialkyl- and triphenylphosphine derivatives of the nickel(II) complexes of 4-thioxo-2-pentanoate and 2,4-pentanedithionate 117
peroxo acetic acid
Why do not 7-co-ordinated diperoxo molybdenum complexes oxidize alkenes? A theoretical analysis L5
phosphine derivatives
Catalytic olefin oligomerisation activity of a series of trialkyl- and triphenylphosphine derivatives of the nickel(II) complexes of 4-thioxo-2-pentanoate and 2,4-pentanedithionate 117
phosphorus pentoxide
Acidity studies of Eaton's catalyst, methanesulfonic acid–phosphorus pentoxide 215
photocatalysis
Heterogeneous photocatalytic oxidation of nitrite over iron-doped TiO_2 samples 67
phthalocyanine complexes
Effects of complexation of oppositely charged water-soluble cobaltphthalocyanines on the catalytic mercaptoethanol autoxidation 161
pinacol
Zeolite catalysts for pinacol rearrangement 39
piperidine
Iron pentacarbonyl-catalysed aminomethylation of alkenes: some intriguing observations 223
platinum
Electrocatalytic functionalization of alkanes using aqueous platinum salts L11
Heterogeneous catalysis in organic synthesis. Part 9. Specific site solvent effects in catalytic hydrogenations 95
Origin of agglomerates observed in high resolution transmission electron microscopy (HRTEM) micrographs of a catalyst containing platinum(II) complexes anchored on phosphinated SiO_2: computer simulation of HRTEM images 231
Hydrogenation of propyne to propene over platinum/silica 275
polyaromatics
Catalytic hydrogenation of polyaromatics in the presence of μ_3-oxo-trirhodium acetate and its silica supported analogue 75
poly-L-lysine
Determination of the rates of formation and hydrolysis of the Schiff bases formed by pyridoxal and poly-L-lysine 361
polymer catalyst
Homogeneous and heterogeneous esterolytic catalyses of imidazole-containing polymers prepared by molecular imprinting of a transition state analogue L21
polymerizations
Molecular orbital studies in the $MgCl_2$–ethyl benzoate–$TiCl_4$ system 137
2-propanol
Kinetic and spectroscopic study of the hydrogen-transfer reaction from 2-propanol to cyclohexanone catalyzed by $[IrH_2(pz)(Hpz)(PPh_3)_2]$ (Hpz = pyrazole) 151
propene
Hydrogenation of propyne to propene over platinum/silica 275
propyne
Hydrogenation of propyne to propene over platinum/silica 275
pyrazole
Kinetic and spectroscopic study of the hydrogen-transfer reaction from 2-propanol to cyclohexanone catalyzed by $[IrH_2(pz)(Hpz)(PPh_3)_2]$ (Hpz = pyrazole) 151
pyridoxal
Determination of the rates of formation and hydrolysis of the Schiff bases formed by pyridoxal and poly-L-lysine 361
rare earth compounds
Regioselective acylative cleavage of cyclic ethers catalyzed by rare earth compounds 357
reduction
Stereoselective reduction of disubstituted aromatics on colloidal rhodium 107
regioselective acylative cleavage
Regioselective acylative cleavage of cyclic ethers catalyzed by rare earth compounds 357

rhodium
Catalytic hydrogenation of polyaromatics in the presence of μ_3-oxo-trirhodium acetate and its silica supported analogue 75
Stereoselective reduction of disubstituted aromatics on colloidal rhodium 107
salen analog
Catalytic activities of nickel(II) complexes of a salen analog, [Ni(babp)], in epoxidation of olefins 195
SAPO5
Cracking of *n*-hexane and *n*-butane over SAPO5, MgAPO5 and CoAPO5 263
saturation kinetics
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177
Schiff base
Determination of the rates of formation and hydrolysis of the Schiff bases formed by pyridoxal and poly-L-lysine 361
secondary alcohol
Substituent effects on the rate of dehydrogenation of primary and secondary alcohols 47
selective oxidation
Electrocatalytic functionalization of alkanes using aqueous platinum salts L11
silica
Surface complexes formed in V_2O_5–TiO_2–SiO_2 catalysts according to ^{51}V and ^{1}H high-resolution solid-state NMR data 57
Hydrogenation of propyne to propene over platinum/silica 275
silica-anchored complexes
Origin of agglomerates observed in high resolution transmission electron microscopy (HRTEM) micrographs of a catalyst containing platinum(II) complexes anchored on phosphinated SiO_2: computer simulation of HRTEM images 231
silica supported catalyst
Catalytic hydrogenation of polyaromatics in the presence of μ_3-oxo-trirhodium acetate and its silica supported analogue 75
simulation
Origin of agglomerates observed in high resolution transmission electron microscopy (HRTEM) micrographs of a catalyst containing platinum(II) complexes anchored on phosphinated SiO_2: computer simulation of HRTEM images 231
solvent effects
Heterogeneous catalysis in organic synthesis. Part 9. Specific site solvent effects in catalytic hydrogenations 95
square-planar complex
Catalytic activities of nickel(II) complexes of a salen analog, [Ni(babp)], in epoxidation of olefins 195
stannia
CO oxidation over Pd/SnO_2 catalyst 297
stereoselectivity
Stereoselective reduction of disubstituted aromatics on colloidal rhodium 107
stereospecific sites
Molecular orbital studies in the $MgCl_2$–ethyl benzoate–$TiCl_4$ system 137
supported catalyst
Hydrogenation of propyne to propene over platinum/silica 275
CO oxidation over Pd/SnO_2 catalyst 297
supported catalysts
Molecular orbital studies in the $MgCl_2$–ethyl benzoate–$TiCl_4$ system 137
supported metal complexes
Polymer-supported catalysis: oxidation of catecholamines by Fe(III) and Cu(II) complexes immobilized to chitosan 177
surface complexes
Surface complexes formed in V_2O_5–TiO_2–SiO_2 catalysts according to ^{51}V and ^{1}H high-resolution solid-state NMR data 57
tetrasodium sulphonate ligand
Effects of complexation of oppositely charged water-soluble cobaltphthalocyanines on the catalytic mercaptoethanol autoxidation 161
tetra(trimethylammonium) iodide ligand
Effects of complexation of oppositely charged water-soluble cobaltphthalocyanines on the catalytic mercaptoethanol autoxidation 161
thiols
Effects of complexation of oppositely charged water-soluble cobaltphthalocyanines on the catalytic mercaptoethanol autoxidation 161

thioxopentanoate complexes
Catalytic olefin oligomerisation activity of a series of trialkyl- and triphenylphosphine derivatives of the nickel(II) complexes of 4-thioxo-2-pentanoate and 2,4-pentanedithionate 117
tin
Acetoxylation of toluene catalyzed by supported Pd–Sn catalysts 311
titania
Surface complexes formed in V_2O_5–TiO_2–SiO_2 catalysts according to ^{51}V and ^{1}H high-resolution solid-state NMR data 57
Heterogeneous photocatalytic oxidation of nitrite over iron-doped TiO_2 samples 67
titanium
Molecular orbital studies in the $MgCl_2$–ethyl benzoate–$TiCl_4$ system 137
Paired interacting orbitals (PIO) study on the formation of the active site in Ziegler catalyst system 243
toluene
Acetoxylation of toluene catalyzed by supported Pd–Sn catalysts 311
transition state analogue
Homogeneous and heterogeneous esterolytic catalyses of imidazole-containing polymers prepared by molecular imprinting of a transition state analogue L21
vanadia
Surface complexes formed in V_2O_5–TiO_2–SiO_2 catalysts according to ^{51}V and ^{1}H high-resolution solid-state NMR data 57
ytterbium–barium cuprate
Role of oxygen vacancies in the decomposition of N_2O over $YBa_2Cu_3O_{7-\delta}$ and Gd_2CuO_4 oxide systems 287
zeolite catalyst
Zeolite catalysts for pinacol rearrangement 39
zeolites
Interaction of CO with Ni^0 in zeolites and on alumina studied by isotopic exchange 343
Ziegler–Natta catalyst
Paired interacting orbitals (PIO) study on the formation of the active site in Ziegler catalyst system 243
Ziegler–Natta catalysts
Molecular orbital studies in the $MgCl_2$–ethyl benzoate–$TiCl_4$ system 137
zinc oxide–chromium oxide catalyst
Substituent effects on the rate of dehydrogenation of primary and secondary alcohols 47